# GOVERNMENT OF INDIA
# POWER
# LOK SABHA

UNSTARRED QUESTION NO:870
ANSWERED ON:28.04.2016
Use of LED Bulbs
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**Will the Minister of POWER be pleased to state:**

(a) whether the Government have issued any guidelines for the use of LEDs which are more energy efficient than the commercial bulbs and if so, the salient features thereof;

(b) whether the Government has issued any direction to the State Governments to promote the use of LEDs and make it available at subsidized rates to the consumers and if so, the details thereof;

(c) whether Government have taken any steps to encourage domestic consumers to replace the existing bulbs with energy efficient LED bulbs in the country and if so, the estimated number of households switched to LEDs, State/UT-wise; and

(d) whether Government is providing any support to the companies engaged in manufacture of LED bulbs under Make in India initiatives in the country, if so, the details thereof and the number of companies set up production plants in the country, State/UT-wise?

## Answer

THE MINISTER OF STATE (INDEPENDENT CHARGE) FOR POWER,
COAL AND NEW & RENEWABLE ENERGY

( SHRI PIYUSH GOYAL )

(a) : For promotion of LED lamps, Bureau of Energy Efficiency (BEE), Ministry of Power has initiated star labeling of Omni Directional LED lamps. Under this programme, energy efficiency labels will be issued to 9W and 7W LED lamps. The salient features of LED Star rating Programme are as follows:

â€¢ The LED lamps shall conform to safety, harmonics and power factor requirements as per the relevant Indian Standards to qualify as a BEE star labeled product.

â€¢ The minimum luminous efficacy of the LED lamp should be 79 lumen/Watt i.e. Star 2 as per the current star-rating plan to qualify for Star Rating Programme.

â€¢ In order to educate and motivate the general consumer, the manufacturers shall provide the information in a tabular form about the LED lamp wattage equivalent to incandescent lamp wattage on the packing.

(b) & (c) : The Hon'ble Prime Minister inaugurated the National LED Domestic and Street Lighting Programme on 5th January 2015. Both of these programme are voluntary in nature and are based on a sustainable business model where the cost of efficient lighting is repaid by consumer/urban local bodies from savings in energy and maintenance expenditure. The entire upfront investment is done by Energy Efficiency Services Ltd (EESL), a joint venture company under Ministry of Power, without any Government budget allocation. In order to encourage States/UTs join the voluntary programme, Secretary, Ministry of Power, Government of India has written to all the Chief Secretaries of the States/UTs on 14 January 2015 subsequent to the launch of the National Programme, requesting them to identify cities and participate in this voluntary initiative. So far, over 10 crore LED bulbs have been distributed by EESL.

There is no element of subsidy in the scheme and the aggregation of demand has enabled reduction of prices of LED bulbs from Rs. 310/- (February, 2014) to Rs. 54.90 (March, 2016), a reduction of over 83%, which is passed on to the consumer.

The estimated number of households that have switched over to LEDs are:

S. No State Name No. of Households
As on 20 April 2016 (In Lakh)
1 Delhi 20.76
3 Haryana 0.44
4 HP 19.61
5 Uttarakhand 9.33
6 Rajasthan 35.10
7 UP 33.60
8 Bihar 5.39
10 Jharkhand 19.36

11 Chhattisgarh 3.77
13 Maharashtra 50.78
14 AP 63.10
18 Karnataka 27.64
20 Kerala 22.17
21 Puducherry 2.03
22 Institutional Supply (Railways/PSUs) 8.58
TOTAL 321.66

(d) : Central Power Research Institute (CPRI), a Government of India Society under Ministry of Power, has taken R&D initiatives under Research Schemes for indigenous development of components of LEDs such as drivers etc.

CPRI also provides testing and certification services to manufacturers for LED lighting systems. The testing services include certification as well as testing for product development/improvement.

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